

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Ihlenfeldt et al.

Application No.: 10/025,826

Group No.: Unknown

Filed: 12/19/2001

Examiner: Unknown

For: STABILIZED AQUEOUS NUCLEOSIDE TRIPHOSPHATE SOLUTIONS

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

## PRELIMINARY AMENDMENT

Sir:

Please enter the following amendments prior to examination of the above-referenced application:

## IN THE CLAIMS:

Please cancel claims 1 to 14, without prejudice, in the originally filed application.

Please add the new claims 15-26 as shown on the attached pages.

Respectfully submitted,

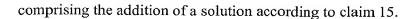
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- 15. An aqueous solution comprising one or more nucleoside triphosphates, wherein the pH value of said solution is above 7.5 and wherein said solution is free of stabilizing substances and a PCR function test is positive after about 90 days at a temperature of 35°C.
- 16. The solution of claim 15, wherein said nucleoside triphosphates are modified nucleoside triphosphates.
- 17. The solution of claim 15, wherein said pH value is above 7.5 and below or equal to 11.
- 18. The solution of claim 15, wherein the solution has a concentration of said nucleoside triphosphates of between about 2 to 200 mmol/l.
- 19. The solution of claim 15, wherein said nucleoside triphosphates are deoxynucleoside triphosphates.
- 20. The solution of claim 15, wherein said solution contains a substance which buffers above pH 7.5.
- 21. In a method for replicating nucleic acid fragments via a reaction in the presence of an enzyme with reverse transcriptase activity, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the addition of a solution according to claim 15.
- 22. In a method for synthesizing nucleic acid sequences via a cycle sequencing reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the addition of a solution according to claim 15.
- 23. In a method for random priming of nucleic acid sequences in a reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the addition of a solution according to claim 15.
- 24. In a method for nick translation of nucleic acid sequences in a reation, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement



- 25. In a method for synthesizing nucleic acid sequences via a polymerase chain reaction, said method comprising the addition of nucleoside triphosphates to said reaction, the improvement comprising the use of a solution containing one or more nucleoside triphosphates, wherein the pH value of said solution is above 7.5 and wherein said solution is free of stabilizing substances and a PCR function test is positive after about 90 days at a temperature of 35°C.
- 26. An aqueous solution comprising one or more dideoxynucleotide triphosphates, wherein the pH value of said solution is above 7.5 and wherein said solution is free of stabilizing substances and a PCR function test is positive after about 90 days at a temperature of 35°C.